

### FluMist® Update

Influenza Vaccine Summit Meeting
Atlanta, GA
April 19, 2007

# Refrigerated FluMist® Launch for 2007-08

	FluMist (Frozen Formulation) Seasonal Vaccine No Longer Manufactured*	FluMist (Refrigerated Formulation) 2007/2008 Launch
Regulatory Status & Age Indication	Licensed in U.S. in 2003 Healthy persons aged 5 – 49 years	Licensed in U.S. in 2007 Healthy persons aged 5 – 49 years
Storage	-15º C Freezer	2-8° C Refrigerator
Excipients	SPG	SPG, arginine, hydrolyzed porcine gelatin
Preservatives	None	None
Dose Volume	0.5mL (0.25mL per nostril)	0.2mL (0.1mL per nostril)

<sup>\*</sup>Frozen formulation may be used for pandemic vaccine.



### Refrigerated FluMist®

Launch planned for 2007-08 season

User stores vaccine refrigerated (2 - 8°C)

Current indication – healthy persons aged 5-49 years

Expanded indication for children aged 12-59 months without history of wheeze/asthma

- Under FDA review
- May 28 PDUFA date

Plan to manufacture 7 M doses

Pricing and Distribution

Commercial – \$17.95 per dose<sup>1</sup>

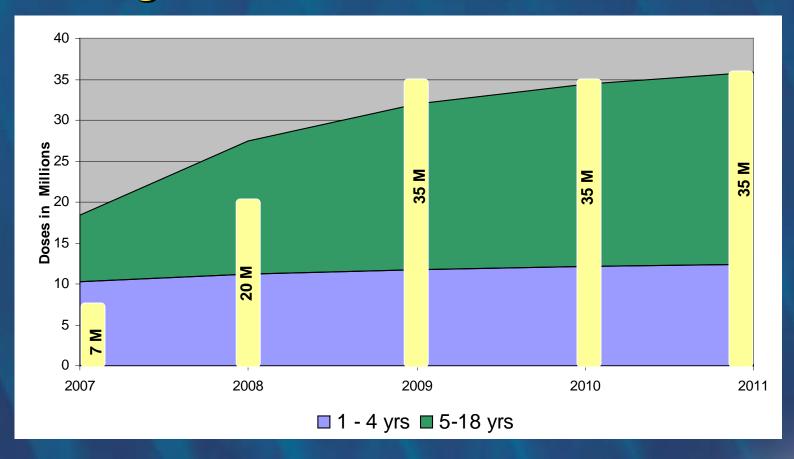
(AmerisourceBergen/McKesson)

VFC contract – \$16.90 per dose<sup>1</sup> (project depots)

Availability targeted to begin in August



# Impact of Expanded Recommendations School-Aged Children



FluMist® Capacity

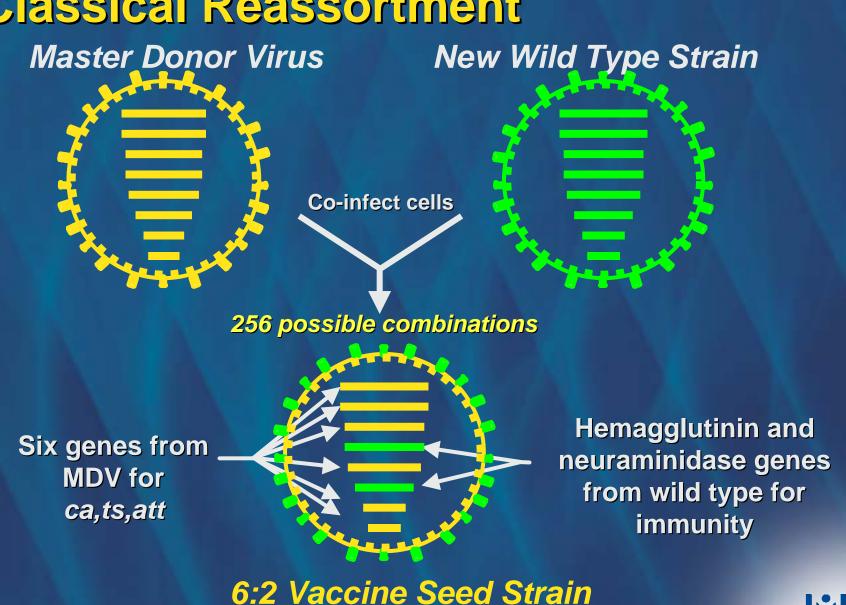


## **Update on Production of Vaccine Plasmid Rescue**

- Approved by FDA in 2006
- Alternate method for production of seasonal vaccine strains
- Required method for production of HPAI pandemic strains



### **Classical Reassortment**



Medimmune

#### **Plasmid Rescue**

Master Donor Virus Plasmids



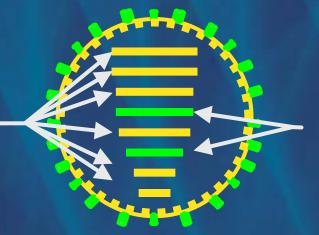
New Wild Type Strain Plasmids



**Electroporate Vero cells** 

Only one possible combination

Six genes from MDV for ca,ts,att



Hemagglutinin and neuraminidase genes from wild type for immunity

6:2 Vaccine Seed Strain



### **Advantages of Plasmid Rescue**

No genetic modifications introduced

Same vaccine seeds as classical reassortment method

RNA sequence equivalent to classical reassortant

Further advantages

Removes risk of exposure to adventitious agents in the wild type isolate

Fewer random mutations observed Identical bulk production process

Timing of plasmid rescue is predictable

Manufacturing can begin earlier, extending campaign Earlier release of vaccine to the end user Allows for greatest number of vaccine doses delivered



